



Thomas Nelson Community College

WELDING INSTITUTE

Virtual Welding

Computer Based Training Modules

State of the Art Welding Machines & Curriculum

Shielded Metal Arc Welding
Gas Metal Arc Welding
Flux Cored Arc Welding
Gas Tungsten Arc Welding
Oxyfuel Gas Cutting/Plasma Arc Cutting
Air Carbon Arc Cutting
Shielded Metal Arc Welding Cutting

Custom Classes for Industry
College Credit Courses
Credit-Free Courses (CEU)
Testing Available
Virtual Reality Welding
CD Based Training
Hands-On Training
Print Reading & Fabricating
Metallurgy Fundamentals

Classes Starting in January—See below and call 757/865-3122 for dates

The Peninsula has a shortage of skilled welders. It affects small and large businesses alike. Finding, recruiting, and/or training replacements or additional welders involves a great deal of time for many companies dependent on this skilled trade. Recognizing the problem and opportunities, Thomas Nelson Community College has developed an innovative program in welding technology.

Shielded Metal Arc Welding (SMAW)

90 Hours \$1,500

Safe Practices

Welding Theory

Weldability

Welding Terms and Definitions

Welder Performance

Inspection/Testing

Gas Metal Arc Welding (G.M.A.W.)

45 Hours \$800

Safe Practices

Welding Theory

Weldability

Welding Terms and Definitions

Welder Performance (Short Circuit
transfer)

Welder Performance (Spray)

Inspection /Testing

Flux Cored Arc Welding (F.C.A.W.)

90 Hours \$1,500

Safe Practices	Gas Shielded
Minor Equipment Repairs	Control & Distortion of Metal(s)
Self Shielded	Visual Inspection

Gas Tungsten Arc Welding (GTAW)

45 Hours \$800

Safe Practices	Welding Performance—Carbon steel
Welding Theory	(plate/pipe)
Weldability	Welding Performance — Stainless Steel
Welding Terms & Definitions	Welding Performance—Aluminum
	Inspection/Testing

*** Oxyfuel Gas Cutting (O.F.C.)/**

60 Hours \$1,100

Safe Practices	Welder Performance—Manual
Cutting Theory	Welder Performance—Machine (track
Cutability	burner)
Cutting Terms and Definitions	Inspection

*** Includes: Plasma Arc Cutting and Air Carbon Arc Cutting**

*** Plasma Arc Cutting (P.A.C)**

Safe Practices	Welder Performance—Manual
Cutting Theory	Welding Performance—Machine (track
Plasmability	cutter)
Cutting Terms and Definitions	Inspection

*** Air Carbon Arc Cutting (CAC-A)**

Safe Practices	Cutting Terms and Definitions
Cutting Theory	Welder Performance—Manual
Cutability	Inspection

Welder Testing Available

Thomas Nelson Community College's Workforce Development

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